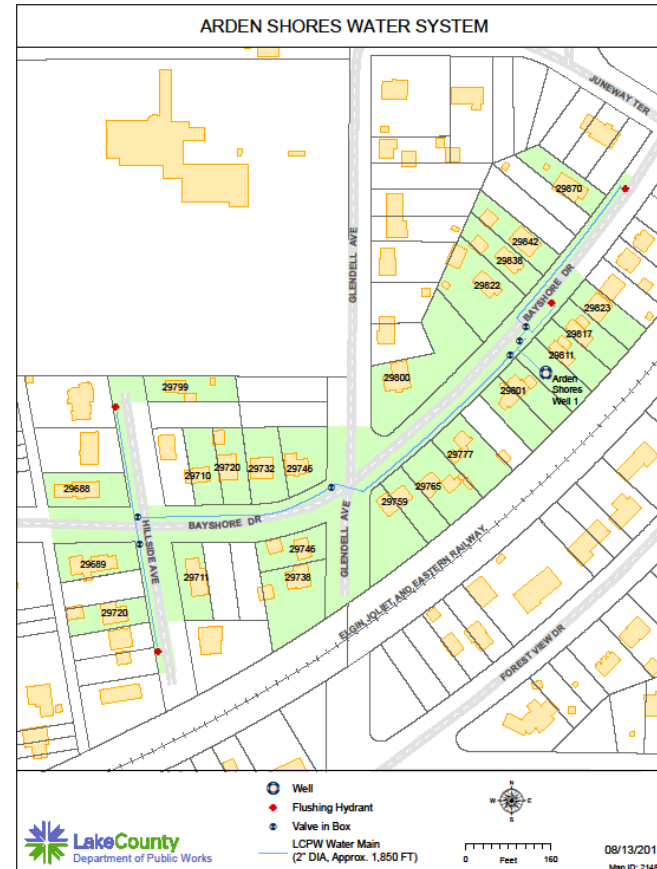


Planning for Future Water Supply Arden Shores Water System



Current Water Supply System

- One shallow well, 283 feet deep
- Two-inch diameter distribution piping
- Two underground storage tanks
- System is 60 years old and needs to be replaced with IEPA compliant design



Current Water Quality

Currently meeting all IEPA water standards but ...

- High sodium
- High sulfate levels
- Hard water

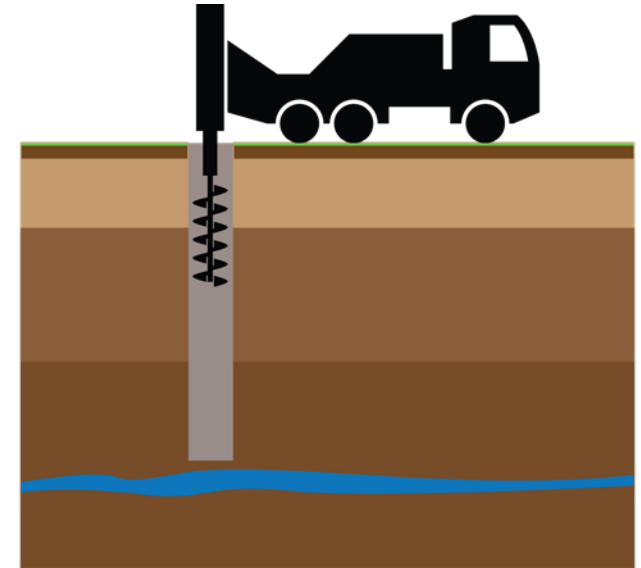


Water Supply Alternatives

- Replace existing system with new well system
- Connect to Lake Michigan Water Supply through City of North Chicago
- Connect to Lake Michigan Water Supply through Village of Lake Bluff

Option 1 – New Well System Supply

- Drill one additional well
- Install six-inch diameter distribution piping
- Construct treatment facilities
- Total 20 year capital and operation cost: \$684,808



Option 2 – Connect to Lake Bluff Water Supply

- Connect to Village of Lake Bluff water system
- Install six-inch diameter distribution piping and new water meter for each home
- Total 20 year capital and operation cost: \$526,824



Option 3 – Connect to North Chicago Water Supply

- Install six-inch diameter distribution piping and new water meter for each home
- Connect to the City of North Chicago water system
- Total 20 year capital and operation cost: \$444,123
- Least costly option



Cost Per Household

- Option 3 is the least costly alternative
- All construction costs for this alternative to be funded by Lake County
- Existing customer charges

Flat unmetered water charge: \$33.42 per month

- Proposed customer charges with North Chicago connection

Metered water charge for 4,000 gallons usage: \$39.16 per month

Potential New Customers

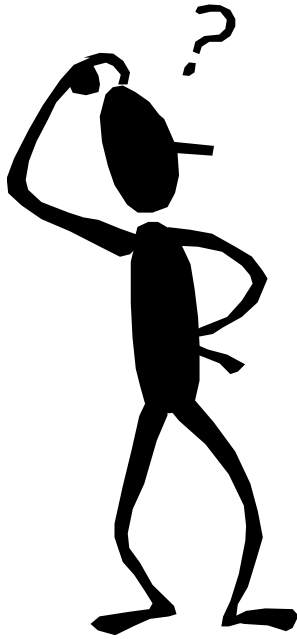
Customer charges for potential new customers adjacent to the water main that do not currently receive water service from the County but wish to be connected to a Lake Michigan Water Supply:

- Connection Fee: \$6,650 / home
- Water Cost: \$39.16 / month for 4,000 gallons

Benefits of Lake Michigan Water From North Chicago

- Provides lowest cost option
- Long term reliability, high quality water
- Not susceptible to overuse or contamination
- Extends the life of household plumbing fixtures and appliances
- Positively impacts / protects property values
- Provides fire protection





Contact Us at Lake County Public Works:

Phone: 847-377-7500 Fred Treven

E-mail: ftreven@lakecountyl.gov

Mail: 650 W. Winchester Rd, Libertyville

Business Hours: 8:00 am – 5:00 pm

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